

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

Raul Pino, M.D., M.P.H.
Commissioner



Dannel P. Malloy
Governor
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Lt. Governor

Environmental Health Section

Environmental Engineering Program (EEP) June 8, 2017 Code Advisory Committee (CAC) Meeting

Meeting Sign-in (Members & Visitors), Visitor Introductions, and CAC Member Updates

- CT Association of Directors of Health
- CT Association of Water Pollution Control Authorities
- CT Environmental Health Association: Soils Training Workshop: October 18-19, 2017, DEEP's Sessions Woods Wildlife Management Area, Burlington, CT. Registration open.
- CT Onsite Wastewater Recycling Association
- Department of Energy and Environmental Protection (DEEP): New manager (Jennifer Perry) oversees Municipal Facilities (Public Sewers) and several other programs. EEP offered to include Ms. Perry on CAC.
- Home Builders and Remodelers Association of CT
- Professional Engineer Associations (CEPP, CSPE, CSCE)
- Soil Scientists
- Visitor Invitations: DPH Private Well Program, CT Water Well Association, DCP Plumbing and Piping Board

Legislative Matters

- Regular Legislative Session ended on June 7, 2017. All bills, except 922 (Temporary Health Care Structures), on the March 2, 2017 CAC meeting agenda did not move forward: 7170 (Regional Health Districts), 6243 & 6332 (Alternative Treatment Sewage Systems), 6606 (Public Water Supply Watershed Affordable Housing Developments), 5416 (Community Water Systems: 4,999 GPD to 7,500 GPD Jurisdiction Change), 5177 (International Property Maintenance Code), 411 (Gray Water Utilities), 457 (In-Law Apartments), 6465 (Pyrrhotite/Concrete Foundations)
- Legislation that moved forward: Amendment 8493/Substitute House Bill 7222 (DPH Tech Bill), Section 30 modifies Subsection (g) of CGS Sec. 22a-430 raising the DEEP site sewage discharge jurisdictional threshold from 5,000 GPD to 7,500 GPD effective July 1, 2017. 922 (Temporary Health Care Structures). Both bills await Governor's action.

Crumbling Foundations and Related Concrete Items

- **May 30, 2017 News Article:** Story on crumbling foundations and J.J. Mottes concrete included reports of commercial septic tanks being damaged. EEP looked into claims and couldn't confirm accuracy.
- **Pre-caster Discussion:** EEP received feedback from an approved CT septic tank pre-cast company about Alkali-Silica Reaction (ASR) aggregate/concrete considerations related to crumbling foundations and problematic concrete, and associated ASTM specifications (C1293 & C1260) for ASR assessments.

New Proprietary Sewage System Technology Reviews

- **ABCO Industries Limited:** ABCA Dewatering Truck for septic tank pump-outs, DEEP and DPH evaluating
- **Isothermal Technology, Inc.:** RPS Technology: Siphon dosing system installed in septic tank
- **K&P Enterprises, LLC:** EarthBuster (process similar to Terralift)
- **Geomatrix, LLC:** Geomat Gallery Proprietary Leaching System



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Water Supply Matters

- **Water Treatment Wastewater (WTW):** DEEP and DPH met on March 8, 2017 to try to finalize the WTW Delegation Agreement, and to coordinate next steps (future status of the existing LFWTW General Permit, DPH WTW regulations, Technical Standards revisions). The agreement has not been finalized; however the latest draft was revised to include a January 1, 2018 effective date and it will be further revised to reflect the new 7,500 GPD sewage discharge jurisdictional threshold if the above noted legislation passes.
- **Softener Wastewater to Septic System Complaints:** DCP and DPH recently held a conference call to discuss complaints against DCP licensed individuals that direct softener wastewater to septic systems. DCP & DPH plan to meet to further discuss remedies to address illegal softener discharges to septic systems.
- **Private Well Task Force (PWTF) Meeting 6 and 2017 Private Well Conference (PWC):** The PWTF meeting (May 31, 2017) included discussions on well siting variance mechanisms for septic system setbacks and the associated draft DPH regulation revisions and DCP well drilling/geothermal well regulations. The March 23, 2017 PWC included a WTW presentation, and another presenter speaking about water quality considerations provided editorial comments about softener impacts to septic systems.
- **State Water Plan:** Pursuant to PA 14-163 the Water Planning Council is required to prepare a draft plan by July 1, 2017, and a final plan is due to General Assembly by January 2018. EEP provided decentralized sewage system comments on 4 associated White Papers and the draft Pathways Forward for CT Water Planning.
- **Leaching System Siting Near Dug Wells:** Considering minimum 24" separation above maximum groundwater in areas with shallow (dug) wells, and DPH may require increased separation for dug well separating distance exception requests made pursuant to PHC Section 19-13-B103d (a)(3) for septic system repairs. MA Alternative Septic System Test Center Data and Slides.

Nonpoint Source (NPS) Pollution Matters

- **DEEP Consultant Study:** The study to evaluate onsite sewage system nitrogen loading/nitrogen management options in CT coastal areas has been awarded to Lombardo Associates.
- **Passive Nitrogen Reduction Systems**
 - CAWPCA 2017 Spring Workshop (Stuart Fairbank, PE, AM/GS & Associates, presentation)
 - State of Florida (Elke Ursin's 2015 Mega-Conference Presentation, Draft Regulations)
 - DPH/DEEP Jurisdictional Matters: Alternative Treatment (AT) vs Conventional SSDS
- **UCONN CLEAR June 2017 Nitrogen Pollution Webinars**
 - Part I: June 14, 3 to 4 pm, LIS Embayment Nitrogen Pollution (Dr. Vaudrey Research)
 - Part II: June 28, 2 to 3 pm, DEEP's New Nitrogen Pollution Strategy

Septage Holding Tanks: DPH approved holding tanks vs DEEP permitted transfer stations

Old Lyme Beaches Sewer Project: The June 29, 2016 CAC meeting agenda included an item about possible revisions to DEEP's CWSRF Induced Growth Development Guidance and potential regulation of building footprint expansion, and the item also cited the Old Lyme Beach area sewer project and possible use of PHC septic regulations (B100a) to regulate building footprint expansions. DEEP and DPH met on February 22, 2017 to discuss the Old Lyme project and DPH's concerns. DEEP recently sent OPM an Environmental Impact Evaluation Record of Decision (EIE ROD) for the project that responded to comments, and it noted PHC septic regulations will not be used to regulate building footprint expansions. The EIE ROD included simplistic nitrogen loading mass balance analysis, but it did not consider on-site nitrogen reduction technologies.

2018-2023 Draft State Conservation & Development Plan

- Comments due to OPM by October 16, 2017
- New decentralized sewage system language included in Growth Management Principles 4 (Rural Lands) and 6 (Integrated Planning)

Off-Site Sewage System Application: An application has been finalized and it is available on the DPH website.

Revisions to the Technical Standards: Revisions to be published on January 1, 2018, and a preliminary summary of proposed revisions is being prepared, and once completed it will be sent electronically to the CAC and other interested parties, and posted on DPH website.